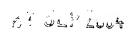
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(71) Applicants (for all designated states except the United States): MICRONAS GMBH [DE/DE]; Hans-Bunte-Strasse 19, 79108 Freiburg (DE). MICRONAS HOLDING GMBH [DE/DE]; Hans-Bunte-Strasse 19, 79108 Freiburg (DE).

(71) Applicants and

(72) Inventors: KLAPPROTH, Holger [DE/DE]; Kehlerstrasse 12, 79108 Freiburg (DE).

(72) Inventors: and

(75) Inventors/Applicants (for US only): LEHMANN, Mirko [DE/DE]; Runzstrasse 71, 79102 Freiburg (DE)

(74) Attorney: BICKEL, Michael; Westphal, Mussgnug & Partner; Mozartstrasse 8, 80336 Munich (DE).

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(54) Title: DEVICE AND METHOD FOR DETECTING CELLULAR PROCESSES BY MEANS OF LUMINESCENCE MEASUREMENTS

[graphic]

(57) Abstract: The invention relates to a device for detecting a luminescence event in or in the immediate vicinity of a cell, a cell cluster, or a tissue, having the following elements: (a) a carrier element (1) having a surface (100) prepared for direct or indirect coupling of cells, and (b) at least one optical detector (2) for receiving a luminescence signal and integrated in the carrier element (1) below the surface (100), characterized by the following elements: (c) a cover (7) having an inlet (8) and an outlet (9) and covering the surface (100) such as to form a cavity (70), and (d) an excitation source (21) connected to the inlet (8).

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